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Vector contg. solid hydrophilic core and grafted lipid layer - for transport of cellular mediators such as interleukin 2, with increased activity and prolonged period of action

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Number of Countries: 021 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9423701	A1	19941027	WO 94FR452	A	19940421	199442 B
FR 2704145	A1	19941028	FR 934698	A	19930421	199443
EP 696191	A1	19960214	EP 94913676	A	19940421	199611
			WO 94FR452	A	19940421	
JP 8508990	W	19960924	JP 94522854	A	19940421	199704
			WO 94FR452	A	19940421	
EP 696191	B1	19970122	EP 94913676	A	19940421	199709
			WO 94FR452	A	19940421	
DE 69401581	E	19970306	DE 601581	A	19940421	199715
			EP 94913676	A	19940421	
			WO 94FR452	A	19940421	
US 5891475	A	19990406	WO 94FR452	A	19940421	199921
			US 96537790	A	19960131	

Priority Applications (No Type Date): FR 934698 A 19930421

Cited Patents: EP 344040; WO 9009798; WO 9221329

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9423701	A1	F 46	A61K-009/16	
				Designated States (National): CA JP KR US
				Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
FR 2704145	A1	38	A61K-009/127	
EP 696191	A1	F	A61K-009/16	Based on patent WO 9423701
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JP 8508990	W	41	A61K-009/50	Based on patent WO 9423701
EP 696191	B1	F 31	A61K-009/16	Based on patent WO 9423701
				Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
DE 69401581	E		A61K-009/16	Based on patent EP 696191
				Based on patent WO 9423701
US 5891475	A		A61K-009/16	Based on patent WO 9423701

Abstract (Basic): WO 9423701 A

A particulate vector comprising (from the inside to the outside) a non-liq. hydrophilic core and an external layer of lipids (I), grafted onto the core by covalent bonds. Also claimed is a method of amplifying the activity of a polypeptide cellular mediator (CM), which is at least partially hydrophobic, comprising: (i) the prepn. of a particulate vector which has a core consisting of a matrix of natural poly- or oligosaccharides, which may be chemically cross-linked and an outer layer of natural fatty acids of variable thickness grafted by covalent bonds onto the core; (ii) opt. lyophilising the vector in a hydrophilic

environment; and (iii) combined with the CM by, at least partly, hydrophobic interactions.

USE - The vectors are used to transport and present polypeptide CMs having at least partial hydrophobic character, partic. interleukin-2 for regulating immune system function (e.g. to increase the effect of viral or bacterial vaccines) but also IL-1 to protect myeloid cells, haematopoietic growth factors for treatment of leukopaenia, interferon to control allergy, etc. The vectors can also be used for supplementation of cell cultures for in vitro protein prodn.

ADVANTAGE - When associated with the vectors, CMs have greater activity (allowing a redn. in dose and thus side-effects) and also duration of action is increased. The vectors have a very simple structure.

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Abstract (Equivalent): EP 696191 B

Particulate vector, characterised in that it comprises, from the inside to the outside, - a non-liquid hydrophilic core, - an external layer consisting of lipid compounds, grafted on the core by covalent bonds.

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Title Terms: VECTOR; CONTAIN; SOLID; HYDROPHILIC; CORE; GRAFT; LIPID; LAYER; TRANSPORT; CELLULAR; MEDIATOR; INTERLEUKIN; INCREASE; ACTIVE; PROLONG; PERIOD; ACTION

Derwent Class: B04; B07

International Patent Class (Main): A61K-009/127; A61K-009/16; A61K-009/50

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Chemical Fragment Codes (M1):

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